

THE OHIO ACADEMY OF SCIENCE

(Mostly Historical)

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PART ONE. DESCRIPTIVE

The story of Science in its simple, literal meaning, "ordered knowledge of natural phenomena," is a very old, a very long, and at the same time an intensely interesting one. Ancient man of necessity began very early to observe the natural phenomena about him and much of the knowledge thus gained has come down to us, often in the form of "myths," but after all a myth is simply man's earliest effort to *explain* some natural phenomenon. And even now, with all our boasted knowledge, we find ourselves "entangled in the web of existence, and we cannot get out of it, even for a brief moment, to see what the web is like." Furthermore, as we follow the course of Science through the years, we come upon many discarded theories, many abandoned organizations, for no sooner is a scientific theory advanced than an organization for its defense and promulgation appears. And while theories and organizations may come and go, SCIENCE MARCHES ON! However interesting and profitable it unquestionably would be to follow the march of Science through the ages, our immediate concern is with a very, very tiny portion of it that began right here in Ohio some fifty years ago, namely, the *Ohio Academy of Science*.

Going back, let us say, to the year 1890, what do we find in the field of science?—A large number of *local scientific groups*, clubs, societies, etc., at least as many as there were colleges and universities, and probably more, all more or less unrelated, disconnected and independent of each other. Beneficial? Useful? Certainly they were serving a definitely useful purpose but in the fertile brain of one William R. Lazenby, at that time a professor at Ohio State University, the belief that the best interests of science and scientists would be served by a state-wide organization took deep and permanent root. This

idea flowered forth on November 3, 1891, in an earnest, almost prophetic appeal to his fellow scientists and to the members of the Biological Club of the Ohio State University of which Club he was then president, to the effect that immediate steps should be taken looking toward the organization of an *Ohio Academy of Science*. The appeal bore fruit at once and a committee of three (D. S. Kellicott, W. A. Kellerman, W. R. Lazenby) was appointed by the Biological Club, with instruction to proceed at once to carry out the suggestions of its president, and to call an organization meeting at the earliest possible date. So after some two months had been spent canvassing the field, the committee felt the time propitious and therefore issued the call. Accordingly, one bleak December day, December 31, 1891, at 2:00 P. M., to be exact, a group of earnest, forward-looking, determined men met in the old Central High School building, corner Broad and Sixth streets, Columbus, and bravely, wisely tackled the job assigned to them, namely, the organization of an Ohio Academy of Science. How well they builded, let the record of the past fifty years bear witness!

Unfortunately space will not permit an extended discussion of the personnel of this notable group! Truly some great spirits were there, as shown not only by what they did at the time, but by their achievements since that historic date. The pathway of some led them to great eminence in the greatest institutions of learning in the land, such as Princeton, Columbia, and Vassar. What fine lives they have led! How fortunate we are to have among us today at least nine of these honored names! (See Exhibit 1.) Look on these faces!

At this point it seems appropriate to make one or two rather extended quotations from one of the chief actors in the chain of events we are trying to portray, since these will throw further light on the character and wisdom of the fathers of the Ohio Academy of Science. First, a few words from the appeal of William R. Lazenby to the Biological Club on November 3, 1891, advocating the organization of a state academy:

"There is need of one institution in Ohio to the organization of which our club should direct its combined energy and influence. This is a state academy of science. If local clubs and societies of science are beneficial, the reasons that make them so apply with greater force to a state organization. Who can estimate the inspiration, the stimulus to research and investigation that such an institution would provoke?
* * * Once organized, I am sure the Ohio Academy would be a signal

and all-inspiring success, and could scarcely fail to secure an honored position among scientific organizations of our country."

Twenty-five years later he wrote these words:

"Our annual meetings have confirmed and strengthened a spirit of good will between the educational institutions of the state. They have cultivated the amenities and developed a feeling of brotherhood among our members. Our academy has stood for good scholarship and good fellowship, and good citizenship. The essentials of a great landscape are unity and variety. These are likewise the great attributes of an association for the promotion of science. Unity in the spirit and ideals of the work to be accomplished, and variety, infinite variety, in the means by which these ideals may be developed. We come together on the basis of commanding interests and diverse experiences. This devotion to the varied phases of science detracts nothing from the pursuit of the older humanities, but adds materially to the effectiveness of any study that puts the student in closer touch with his environment, in closer touch with nature's laws."

What a masterful conception and statement of the functions of an organization! But back to our meeting on December 31, 1891.

Dr. A. M. Bleile was chosen temporary chairman and Prof. William R. Lazenby temporary secretary of the organization meeting. While a duly appointed committee was preparing a constitution for the new society, some ten papers selected from the 26 or more submitted were read and discussed. We note with pleasure that one of the ten papers read and discussed was by one of the nine now living charter members of the Academy, our own beloved and highly honored Joseph N. Bradford, on the subject, "Photography in Scientific Work." The list of papers prepared for this meeting shows a remarkable range of subjects.

The constitution formed and adopted at this first meeting gave to the new organization the name of the *Ohio State Academy of Science* and it was so designated until 1914 when the word "State" was dropped and the name became the *Ohio Academy of Science*, as at present. No material changes were made in the constitution until 1939 when the Council form of government was adopted.

The objects or purposes of the Academy as set forth in the constitution were two: (1) The promotion of scientific research; (2) The diffusion of knowledge concerning the various branches

of science. The Academy was incorporated under the laws of Ohio on March 12, 1892.

The first constitution made no provision for the organization of special groups or sections, covering special fields of scientific endeavor, but the objects of the Academy were very satisfactorily accomplished through general meetings, general programs and the discussion of topics of general interest down to and including the year 1907. In 1908 two sections, "Biology" and "Geology," were organized and the other sections came along about as shown in Exhibit 13. Thus at the end of the first half century we find an academy of approximately 500 members with ten live, wide-awake sections, the last but not least, certainly for long, being the Section of Junior Academy of Science. More about this later. It may be interesting at this time to note that during the fifty years covered by this discussion 3,829 papers and lectures were presented to the general and sectional meetings of the Academy. One can hardly imagine the variety to be found in this vast array of scientific lore.

Coming now more directly to the two distinct objects of the academy, the promotion of research and the diffusion of scientific knowledge, much might be said regarding the accomplishments of the academy during the past fifty years. Fortunately for the academy, among the stalwarts who cherished and nourished it in its infancy were those who gave generously both of their time and means. Outstanding among these was Mr. Emerson McMillin who, as early as 1898, inaugurated a fund in aid of research by a gift of \$250.00, which sum he continued to give annually up to the time of his death in 1922. To the McMillin Fund were added from time to time certain allotments from life memberships, and, since 1937, annual contributions from the American Association for the Advancement of Science, so that, to date, approximately \$6,000 has been given in aid of more than sixty projects. The McMillin grant has stimulated a good deal of activity which has continued through the years and furnished a fund, the income from which has made it possible to continue grants in aid of research after Mr. McMillin's death. We very much regret that space will not permit the publication of a complete list of the various projects aided from the research fund of the academy, especially as such a list is the only way of showing the wide range in the scientific field covered by the work of the academy. To quote

from the last report of the chairman of the Research Fund for the past several years, Dr. Herbert Osborn:

"It seems very evident from this record that the McMillin Fund has been exceptionally serviceable in the encouragement of research work. It is certain for some of these studies the small allowance for certain kinds of expense was the particular thing which made possible the carrying on of the studies, resulting in the preparation of matter which has been of distinct value to the science of the state, and often of interest outside of state borders. The nature of the grants has been indicated in some of the records given above, but it may be noted further that they have included expenses involved in field trips, especially for problems in geology, botany and zoology, for apparatus in chemistry and physics, and in some cases for publication where there was need in this direction."

The Trustees of the Research Fund have been rather liberal in their construction of the term "research" and have not hesitated to extend aid in the publication of the results of research projects where this was necessary to make the results available. In Exhibit 9 is given a list of 21 special papers the publication of which was sponsored by the academy and all these from 3 to 19 inclusive received aid from the research fund. In a few cases the trustees even granted aid in the purchase of necessary apparatus.

As to the diffusion of scientific knowledge, the academy has always made much of the "printed word." It has always had an "official organ"; first, the *Journal of the Cincinnati Society of Natural History*, and the technical series of *Bulletins of the Ohio Agricultural Experiment Station*; in 1903 the *Ohio Naturalist* became its official organ and remained so until 1915 when the *Ohio Journal of Science* was made the official organ, and still is. Of course the lecture platform is used by many members of the academy in the diffusion of scientific information and even the radio has come into general use.

This leads up to another very important method of dissemination of scientific facts generously used by the academy, and that is through a system of exchanges. See Exhibit 11 and note that the academy is now receiving some 800 publications annually from 153 domestic and 282 foreign exchanges. These are available not only to members of the academy but to all students of science. This fact taken in connection with the statement above that approximately 4,000 scientific lectures and papers have been delivered and read before the academy

during the last 50 years gives some idea as to what the academy is doing to spread the facts about science.

Reference has already been made to the organization of a Junior Academy of Science, designated as a section of the academy. The importance of this step warrants some further details, finally leading up to its consummation. The Ohio Academy of Science was by no means the first to organize a junior academy of science; in fact it has been a little slow. The agitation for a junior academy had its genesis at the Springfield meeting of the Ohio Academy, when on April 27, 1929, at the suggestion of the secretary, the following motion was approved by the academy:

"That a committee of three be appointed by the president to consider the advisability and the ways and means of establishing facilities for encouraging junior scientific effort in Ohio and report with recommendation at the next annual meeting of the Academy."

Very appropriately, Dean Charles G. Shatzer of Wittenberg College was made chairman of that committee, and after three or four years of faithful effort the committee came to the conclusion that the time was not quite but almost ripe for the inauguration of a Junior Academy, and so reported to the Academy, with the recommendation that the matter be allowed to remain in abeyance until conditions seemed a little more propitious. This recommendation was approved and except for a little prodding now and then by the secretary no further serious effort was undertaken until 1939 when President Claude E. O'Neal revived the matter in real earnest. While little was actually accomplished during his administration other than "stirring the waters," fortunately he was succeeded by one equally as zealous for the project, namely, President William Lloyd Evans. Then, too, there arrived on the scene about this time the very man to head the committee charged with the arduous work of organizing the forces involved in the person of Prof. Charles W. Jarvis, of Ohio Wesleyan University. A more fortunate selection could scarcely have been made, as the results abundantly demonstrate. Assured of an efficient leadership, the Council gladly authorized, sponsored and actively supported a *trial junior academy meeting*, same to be held as a part of the semi-centennial celebration. The trial meeting was held on May 11, 1940, and was addressed by Dr. Otis W. Caldwell, General Secretary of the American

Association for the Advancement of Science, thereby adding considerable stimulus to the meeting.

Some 65 students from high schools well distributed over the state participated in this trial meeting, presenting some 67 papers in the fields of mathematics, physics, chemistry and biology. These papers were read, judged and rewarded. In addition to the papers, several very interesting demonstrations and quite an impressive array of exhibits were sponsored by the students. In short, the trial meeting was such an eminent success, even surprising the most sanguine expectations, that the Academy readily approved a recommendation of the Council that the Junior Academy be made a permanent organization as an integral part of the Senior Academy, same to be temporarily designated as a section of the Academy, practically self-governing with its own constitution, by-laws and officers. Of course Professor Jarvis was elected chairman, and Mr. Orval Linebrink secretary for the ensuing year.

Any history or "story" of the Ohio Academy of Science would be quite incomplete without some account of the Semi-Centennial Celebration, one if not *the* most important single event of the entire fifty years. At one time it was hoped ample space would be provided in which to do full justice to this truly great scientific event; to those who labored from one to four years in its accomplishment, giving freely of their time, talent and even means. In the opinion of some it is just here that the academy made its greatest mistake, or to use an old homely saying, more expressive, perhaps, than elegant, "The Academy swallowed the whole hog and then choked on the tail!" It looks, therefore, as if many of those who performed a noble, meritorious part in making the semi-centennial the success it undoubtedly was will have to be content with the *reward of the Unknown Soldier!* But even so, history insists that we be *fair*, be *just*, be *honest!* Silence in itself is not necessarily ethical, in fact may be just the opposite, even downright dishonest, especially if some one is thereby deprived of his justly merited share of praise. Therefore, at the risk of being severely criticized, for we are not unmindful of the risks involved when one begins to "call names," we propose to call a few names; truly wish we could call the entire roll.

The story of the semi-centennial of the Ohio Academy of Science had its inception in the meeting of the Executive Committee held in the New Secor Hotel in the City of Toledo

on April 9, 1936, when, at the suggestion of the secretary, it was voted to make the following recommendation to the Academy, viz.:

"That action be inaugurated at this meeting looking toward a suitable observance of the Fiftieth anniversary of the organization of the Academy four years hence and to this end the Committee suggests the appointment of a special committee on ways and means, to report at the next annual meeting of the Academy."

On the second day of the meeting (April 11), Dr. F. C. Waite, of Western Reserve University, referring to the foregoing recommendation, offered the following motion, which the Academy unanimously passed, viz.:

"That the incoming President appoint a preliminary committee of five on plans for the celebration of the 50th anniversary and that this committee be charged to make a definite report of plans at the meeting next year."

In compliance with this action of the Academy, President Charles A. Doan appointed the following persons on this special committee, viz.:

Frederick C. Waite, Herbert Osborn, Walter H. Bucher, William Lloyd Evans and the Secretary, chairman.

This committee became immediately active and by personal interviews and by correspondence invited suggestions from every source that seemed available to it at the time, and after a year of earnest, conscientious effort it came to the next annual meeting (May 14, 1937) with the following preliminary report, viz.:

*Report of the Preliminary Committee on 50th Anniversary of the
Ohio Academy of Science*

COLUMBUS, OHIO, May 14, 1937.

To the Ohio Academy of Science:

Your Committee appointed by President Doan, pursuant to a motion passed at the Toledo meeting of April, 1936, submits the following report:

We heartily commend the celebration of the semi-centennial of the *Ohio Academy of Science* and believe that this should be done in a distinctive and comprehensive manner that will not only commemorate what has been accomplished in the past fifty years, but will also stimulate yet greater endeavor in the future. We hope that the program will be sufficiently worthy that the proceedings when published will be a real contribution to the literature of science and of scientific organizations.

To this end we make the following recommendations:

1. That the 50th Annual Meeting be held at the Ohio State University in Columbus, the birthplace of the Academy, in 1940, the month and days to be designated later.
2. That the meetings of 1938 and 1939 be held elsewhere than in Columbus.
3. That the 50th meeting be devoted entirely to the semi-centennial celebration, consisting of two major parts, one *historical* and the other *scientific*.
4. That the meeting be organized and carried through by a Director and ten committees.
5. That the Director have general supervision of the entire celebration and be ex-officio a member of each committee.
6. That the Nominating Committee for the 1938 meeting present one or more suggestions for the position of Director and that their suggestion or suggestions for this position be announced at the first business session of the meeting of 1938 and voted on at the final session of that meeting.
7. That the committees be grouped into two groups on the basis of the sequence of their activities.
8. That each committee consist of not more than three members, and that not more than one honorary member may be, but not of necessity must be, added to each committee.
9. That the committees be as follows:

GROUP A

- (1) On Publicity, both preliminary and current.
- (2) On Program.
- (3) On Speakers, including guests.
- (4) On Invitations.
- (5) On Historical Statistics and Lists.

GROUP B.

- (6) On Exhibits.
- (7) On Memorials.
- (8) On Dinner.
- (9) On Finances.
- (10) On Publications.

10. That the Executive Committee choose and appoint at least the chairman of each of the five committees in Group A, not later than December 1, 1937, with the expectation that a preliminary report from these five chairmen will be presented at the 1938 meeting.

11. That the completion of all committees be accomplished not later than December 1, 1938, and that all committees report either separately or through a general report by the Director at the 1939 meeting.

Respectfully submitted with the understanding that when amended

and adopted the carrying out of these recommendations be the duty of the officers and executive committee of the Academy.

(Signed) W. H. ALEXANDER, *Chairman*,
F. C. WAITE,
HERBERT OSBORN,
WALTER H. BUCHER,
WM. LLOYD EVANS,

The preliminary report with its various recommendations apparently met with the hearty approval of the Academy and the new President, Dr. Claude E. O'Neal, of Ohio Wesleyan University, devoted himself with unusual zeal, tact and foresight to the numerous problems involved in the project. His first great concern was, of course, to find a suitable Director. After a most careful, thorough canvass of the field, all signs seemed to point to the late beloved Dean of the Graduate School at Ohio State University, Prof. George F. Arps, and with remarkable unanimity the Academy turned to him for leadership. Tactfully approached regarding the matter by President O'Neal and his supporting officers the beloved Dean graciously accepted the office of Director of the Semi-Centennial, and everybody was more than happy, for Dean Arps was known to be a past master in such matters. For a time all went well. Rapid progress was made by the Director and the President in the appointment of committees, the development of the details of a most ambitious celebration, the raising of the necessary funds, and so forth, when lo, tragedy entered! The "grim reaper" came and removed our trusted leader! The blow was staggering. Confusion ensued for a time. To whom could we now turn? When, lo, Providence entered!

About this time Dr. William Lloyd Evans, of Ohio State University became President of the Academy. He was one of those who had worked out the preliminary plans for the celebration, and was therefore most helpful and sympathetic from the very beginning. So all eyes turned to the new President and his generous heart was already deeply enmeshed with the best interests of the Academy and of course he could not refuse the importunities of his fellows, "his partners in distress." Accordingly, he assumed the double role of President of the Academy and the Director of the Semi-Centennial. And with what rare skill and wise counsel he carried on to a grand finale, every one knows. "Well done, good and faithful servant!"

Another major problem pressing for solution was that of building a program in keeping with the high aims of the promoters of the celebration, really the *sine qua non* of the whole affair. Who could organize such a program and secure the necessary talent? Here again rare wisdom was shown in the selection of the chairman of the Program Committee, in the person of Dr. Clarence H. Kennedy, of Ohio State University. Such a task is difficult enough under the most favorable circumstances but when beset with severe financial limitations it becomes even more difficult. Dr. Kennedy's task was made somewhat more difficult by an early decision to the effect that only talent from outside the state would be used on the program. Fortunately, however, this restriction was later removed and several of our distinguished Ohio scientists were on the program. The masterly manner in which Dr. Kennedy and his committee handled the building of a notable program is abundantly attested by reference to the printed, official anniversary program and to the array of fine papers published in the May issue of the Ohio Journal of Science. Congratulations, Dr. Kennedy!

Another faithful worker whose arduous labors must not be overlooked was the chairman of the Finance Committee, Dr. H. H. M. Bowman, of the University of Toledo. The solicitation of funds with which to finance a celebration of this kind does not, as a rule, lend itself to the spectacular; only hard work and monotonous drudgery are involved, with disappointments a-plenty. Dr. Bowman and his committee are worthy of the highest commendation for a job well done.

One of the greatest surprises, certainly one of the most impressive features, of the semi-centennial was the number and variety of exhibits, both centralized and fixed, provided for the inspection of visitors. All credit and praise for this part of the semi-centennial belong to Chairman Glenn W. Blaydes and his loyal, efficient committee.

Verily "the first shall be last and the last first!" Who of all those having any part, however minor it may have seemed, in the success of the semi-centennial has not, at one time or another, found himself or herself knocking at the door of our patient, hard-working, indefatigable, resourceful librarian, Mrs. Ethel M. Miller! No matter what one wanted to know about this or that meeting, this or that person, this or that thing, it was always, "See Mrs. Miller!" She never failed us. Hats off to Mrs. Miller!

PART TWO. STATISTICAL

EXHIBIT 1. CHARTER MEMBERS

C. E. ALBRIGHT.....	Columbus	MRS. W. A. KELLERMAN.....	Columbus
A. M. BLEILE.....	Columbus	D. S. KELLCOTT.....	Columbus
*L. M. BLOOMFIELD.....	†Columbus	WILLIAM KREBS.....	Cleveland
†R. F. D. No. 2, Lancaster, Ohio		WILLIAM R. LAZENBY.....	Columbus
E. E. BOGUE.....	Orwell	J. U. LLOYD.....	Cincinnati
R. D. BOHANNAN.....	Columbus	N. W. LORD.....	Columbus
*J. N. BRADFORD.....	†Columbus	L. H. McFADDEN.....	Westerville
†55 E. Oakland Ave., Columbus		*C. B. MORREY.....	†Columbus
H. E. CHAPIN.....	Athens	†South Miami, Fla.	
E. N. CLAASSEN.....	Cleveland	*E. L. MOSELEY.....	†Sandusky
E. W. CLAYPOLE.....	Akron	†Bowling Green, Ohio	
A. D. COLE.....	Granville	E. T. NELSON.....	Delaware
F. J. COMBS.....	Columbus	EDWARD ORTON.....	Columbus
*EDWIN G. CONKLIN.....	†Delaware	A. N. OZIAS.....	Columbus
†Princeton University,		A. D. SELBY.....	Columbus
Princeton, N. J.		C. E. SLOCUM.....	Defiance
GEORGE W. DEAN.....	Kent	ELLEN E. SMITH.....	Painesville
H. J. DETMERS.....	Columbus	H. P. SMITH.....	Portsmouth
FREDA DETMERS.....	Columbus	HENRY SNYDER.....	Oxford
F. J. FALKENBACH.....	Wooster	WILLIAM SOULE.....	Alliance
A. FEIEL.....	Columbus	*H. A. SURFACE.....	†Columbus
KENT O. FOLTZ.....	Akron	Selinsgrove, Pa.	
SARA F. GOODRICH.....	Geneva	B. F. THOMAS.....	Columbus
W. J. GREEN.....	Wooster	*A. L. TREADWELL.....	†Oxford
*G. P. GRIMSLEY.....	†Columbus	†Vassar College,	
†Baltimore, Md.		Poughkeepsie, N. Y.	
L. W. GUNCKEL.....	Dayton	*GEORGE R. TWISS.....	†Columbus
SETH HAYES.....	Cincinnati	†Ft. Myers, Fla.	
J. S. HINE.....	Columbus	LEWIS ULLRICH.....	Tiffin
L. A. HINE.....	Sandusky	H. A. WEBER.....	Columbus
T. F. HUNT.....	Columbus	F. M. WEBSTER.....	Wooster
DAVIS L. JAMES.....	Cincinnati	WILLIAM C. WERNER.....	Columbus
REYNOLD JANNEY.....	Chillicothe	JANE F. WINN.....	Chillicothe
H. L. JONES.....	Granville	A. A. WRIGHT.....	Oberlin
W. A. KELLERMAN.....	Columbus	J. B. WRIGHT.....	Wilmington

*Living. †Address in 1891. ‡Present address.

NOTE: Mr. Surface died July 8, 1941.—W. H. A.

EXHIBIT 2. APPROXIMATE MEMBERSHIP AT END OF EACH YEAR

(Figures in parentheses indicate number new members elected during the year.)

1891.....	59*	1907.....	203 (20)	1923.....	324 (25)
1892.....	117	1908.....	209 (25)	1924.....	372 (59)
1893.....	136	1909.....	197 (16)	1925.....	396 (46)
1894.....	130	1910.....	183 (8)	1926.....	442 (69)
1895.....	158	1911.....	197 (13)	1927.....	484 (69)
1896.....	158	1912.....	218 (32)	1928.....	† (53)
1897.....	162	1913.....	232 (48)	1929.....	589 (66)
1898.....	164	1914.....	234 (24)	1930.....	607 (94)
1899.....	180	1915.....	254 (41)	1931.....	612 (70)
1900.....	173	1916.....	268 (17)	1932.....	467 (58)
1901.....	165	1917.....	258 (11)	1933.....	(28)
1902.....	158	1918.....	245 (11)	1934.....	537 (28)
1903.....	166	1919.....	284 (40)	1935.....	472 (22)
1904.....	161 (15)	1920.....	299 (30)	1936.....	385 (41)
1905.....	182 (28)	1921.....	325 (47)	1937.....	399 (39)
1906.....	195 (26)	1922.....	326 (46)	1938.....	500 (61)
1939.....	560 (68)	1940.....	575 (127)		

*Charter members. See Exhibit 1.

†List not published but given as "a few over 500."

EXHIBIT 3. LIFE MEMBERS

EMERSON E. McMILLIN.....	1892-1922; died December 31, 1922.
FRANK R. VAN HORN.....	1921-1933; died August 1, 1933.
CLINTON R. STAUFFER.....	1930-
S. PRENTISS BALDWIN.....	1930-1938; died December 31, 1938.
S. CHARLES KENDEIGH.....	1930-

EXHIBIT 4. PATRONS

C. E. SLOCUM.....	1908-1915; died June 7, 1915.
EMERSON E. McMILLIN.....	1920-1922; died December 31, 1922.
GEORGE T. SPAHR.....	1929-1939; died September 12, 1939.

EXHIBIT 5. HONORARY MEMBERS

THOMAS CORWIN MENDENHALL.....	1912-1924; died March 22, 1924.
F. A. McCLURE.....	1937-

NOTE: Approximately 400 members have been made fellows of the Academy.

EXHIBIT 6. TIME OF ANNUAL MEETINGS

Nos. 1 to 10 (1891-1900), held late in December (Christmas Holidays).

Nos. 11 to 25 (1901-1915), held late in November (Thanksgiving Time).

Nos. 26 to 50 (1916-1940), held in the Spring (Easter Vacation Time).

(The meeting time was changed to the Easter Vacation season at the 25th Annual Meeting, 1915.)

EXHIBIT 7. PLACES AT WHICH ANNUAL MEETINGS HAVE BEEN HELD

(With number of times at each)

Akron.....	1	Columbus.....	29	Oxford.....	2
Athens.....	1	Delaware.....	2	Springfield.....	1
Cincinnati.....	4	Granville.....	2	Toledo.....	1
Cleveland.....	3	Oberlin.....	2	Wooster.....	2

EXHIBIT 8. PAST OFFICERS

(1) PRESIDENTS

*. A. M. BLEILE.....	1891	25. GEORGE D. HUBBARD.....	1916
1. E. W. CLAYPOLE.....	1892	26. FREDERICK O. GROVER.....	1917
2. EDWARD ORTON.....	1893	27. F. L. LANDACRE.....	1918
3. F. M. WEBSTER.....	1894	28. MAYNARD M. METCALF.....	1919
4. D. S. KELLICOTT.....	1895	29. F. C. BLAKE.....	1920
5. A. A. WRIGHT.....	1896	30. WILLIAM H. ALEXANDER.....	1921
6. W. A. KELLERMAN.....	1897	31. RAYMOND C. OSBURN.....	1922
7. W. G. TIGHT.....	1898	32. ALBERT P. WEISS.....	1923
8. G. F. WRIGHT.....	1899	33. KIRTLLEY F. MATHER.....	1924
9. JOSUA LINDAHL.....	1900	34. E. N. TRANSEAU.....	1925
10. A. D. SELBY.....	1901	35. PAUL M. REA.....	1926
11. WILLIAM R. LAZENBY.....	1902	36. WILLIAM MCPHERSON.....	1927
12. C. J. HERRICK.....	1903	37. HARRIS M. BENEDICT.....	1928
13. E. L. MOSELEY.....	1904	38. JAMES S. HINE.....	1929
14. HERBERT OSBORN.....	1905	39. FREDERICK C. WAITE.....	1930
15. EDWARD L. RICE.....	1906	40. AUGUST F. FOERSTE.....	1931
16. CHARLES DURY.....	1907	41. ALPHEUS W. SMITH.....	1932
17. FRANK CARNEY.....	1908	42. ROBERT A. BUDINGTON.....	1933
18. JOHN H. SCHAFFNER.....	1909	43. E. LUCY BRAUN.....	1934
19. W. F. MERCER.....	1910	44. JAMES P. PORTER.....	1935
20. LEWIS G. WESTGATE.....	1911	45. WALTER H. BUCHER.....	1936
21. BRUCE PINK.....	1912	46. CHARLES A. DOAN.....	1937
22. L. B. WALTON.....	1913	47. CHARLES G. SHATZER.....	1938
23. THOMAS C. MENDENHALL.....	1914	48. CLAUDE E. O'NEAL.....	1939
24. J. WARREN SMITH.....	1915	49. WILLIAM LLOYD EVANS.....	1940

*Chairman of the organization meeting only.

(2) SECRETARIES

1. WILLIAM R. LAZENBY.....	1892	4. F. L. LANDACRE.....	1904
2. W. G. TIGHT.....	1893-1894	5. L. B. WALTON.....	1905-1912
3. E. L. MOSELEY.....	1895-1903	6. EDWARD L. RICE.....	1913-1922
7. WILLIAM H. ALEXANDER.....	1923-1940		

(3) TREASURERS

1. A. D. SELBY.....	1892-1895	5. WENCEL J. KOSTIR.....	1919
2. D. S. KELLICOTT.....	1896-1898	6. A. E. WALLER.....	1920-1936
3. HERBERT OSBORN.....	1899-1904	7. EUGENE VAN CLEEF.....	1937-1939
4. JAMES S. HINE.....	1905-1918	8. E. S. THOMAS.....	1940-

EXHIBIT 9. SPECIAL PAPERS

1. Sandusky Flora. pp. 167. E. L. MOSELEY.
2. The Odonata of Ohio. pp. 116. DAVID S. KELLCOTT.
3. The Preglacial Drainage of Ohio. pp. 75. W. G. TIGHT, J. A. BOWNOCKER, J. H. TODD and GERARD FOWKE.
4. *The Fishes of Ohio. pp. 105. RAYMOND C. OSBURN.
5. Tabanidae of Ohio. pp. 63. JAMES S. HINE.
6. *The Birds of Ohio. pp. 241. LYNDY JONES.
7. Ecological Study of Big Spring Prairie. pp. 96. THOMAS A. BONSER.
8. The Coccidae of Ohio. I. pp. 66. JAMES G. SANDERS.
9. Batrachians and Reptiles of Ohio. pp. 54. MAX MORSE.
10. Ecological Study of Brush Lake. pp. 20. J. H. SCHAFFNER, OTTO E. JENNINGS, FRED J. TYLER.
11. The Willows of Ohio. pp. 60. ROBERT F. GRIGGS.
12. Land and Fresh-water Mollusca of Ohio. pp. 35. V. STERKI.
13. The Protozoa of Sandusky Bay and Vicinity. pp. 52. F. L. LANDACRE.
14. Discomycetes in the Vicinity of Oxford. pp. 54. FRED M. BACHMAN.
15. *Trees of Ohio and Surrounding Territory. pp. 122. JOHN H. SCHAFFNER.
16. The Pteridophytes of Ohio. pp. 41. JOHN H. SCHAFFNER.
17. Fauna of the Maxville Limestone. pp. 65. W. C. MORSE.
18. The Agaricaceae of Ohio. pp. 116. W. G. STOVER.
19. An Ecological Study of Buckeye Lake. pp. 138. FREDERICA DETMERS.
20. Flora of the Oak Openings West of Toledo. pp. 56. E. L. MOSELEY.
21. The Cedar Cliffs Prairie Opening of the Cincinnati Region. pp. 36. N. MILDRED IRWIN.

*Out of print.

EXHIBIT 10. SALES OF PUBLICATIONS

RECEIPTS

1903-1904—Treasurer's report shows sales amounting to.....	\$ 5.09
1904-1914—W. C. Mills, librarian in charge, sales of.....	311.69
1915-1923—C. W. Reeder in charge, sales amounted to.....	252.42
1924-1925—Miss Alice McKee in charge, sales reached.....	65.89
1926-1940—Mrs. Ethel M. Miller in charge, sales reached.....	701.54
Adding to these receipts bank dividends on funds on deposit, 1926-1937, the sum of.....	37.00
We have total receipts of.....	\$1,373.63

EXPENSES

1899—Cost of Special Papers Nos. 1 and 2 (Exhibit 9).....	\$160.00
1904-1914—Postage paid by W. C. Mills, librarian.....	316.78
1929—Cost of Special Paper No. 21.....	210.00
Total expenditures.....	\$686.78
1903-1940—Leaving a cash balance of.....	\$686.85

N. B.: The postage on Academy publications since 1915 has been paid by the Ohio State University Library thus saving to the Academy the entire sum of the balance noted above.

EXHIBIT 11. EXCHANGES

1905. W. C. Mills, librarian, in charge of Academy exchanges; at this time exchanges were being received from 26 scientific societies and colleges.
1909. Academy publications were being sent to 16 scientific societies and to two foreign museums, Buenos Aires and the British.
1915. The Ohio Academy of Science library was deposited in the Ohio State University Library and C. W. Reeder placed in charge of the exchanges. Mr. Reeder immediately inaugurated an intensive effort to secure additional exchanges, the net result of his effort being some 200 new titles.
1921. Another effort to secure more exchanges was made but with less satisfactory results.
- 1924-25. Miss Alice McKee was in charge of the exchanges.
1926. Following the departure of Mr. Reeder from the library, Mrs. Ethel M. Miller was placed in charge of the Academy exchanges and through her wise, persistent efforts 34 new exchanges were added the first year and the list has continued to grow ever since.
1941. As a result of the faithful efforts of the afore-mentioned persons the Ohio Academy of Science now has on its exchange list 153 domestic and 282 foreign exchanges, or a total of 435. The number of publications received is approximately 800, as many institutions send several titles.
-

EXHIBIT 12. CHAIRMEN SEMI-CENTENNIAL COMMITTEES

GROUP A

1. *On Publicity:* EDWARD S. THOMAS, Ohio State Museum.
2. *On Program:* DR. CLARENCE H. KENNEDY, Ohio State University.
3. *On Speakers:* FRANK J. WRIGHT, Denison University.
4. *On Invitations:* DR. RAYMOND C. OSBURN, Ohio State University.
5. *On Historical Statistics and Lists:* DR. SAMUEL RENSHAW, Ohio State University.

GROUP B

1. *On Exhibits:* DR. GLENN W. BLAYDES, Ohio State University.
 2. *On Memorials:*
 3. *On Banquet:* DR. F. C. DOCKERAY, Ohio State University.
 4. *On Finances:* DR. H. H. M. BOWMAN, University of Toledo.
 5. *On Publications:* DR. HENRY C. SHETRONE, Ohio State Museum.
 6. *On Housing:* DR. FRED A. HITCHCOCK, Ohio State University.
-

EXHIBIT 13. FORMATION OF SECTIONS

- 1891-1907. No separate sections.
1908. Biology, Geology.
1909. Biology was divided into Botany and Zoology.
1912. Physics.
1917. Anatomy, Physiology, later known as the Medical Sciences.
1919. Psychology.
1924. Name of the Physics Section changed to the Physical Sciences.
1932. Geography.
1933. Chemistry.
- Section of Physical Sciences changed to "Physics and Astronomy."
1938. Mathematics.
1940. Junior Academy of Science.

EXHIBIT 14.. GRANTS FROM THE RESEARCH FUND

1899.	W. G. Tight, J. A. Bownocker, J. H. Todd, R. C. Osburn.....	\$160.00
1900.	Gerard Fowke, R. C. Osburn, T. A. Bonser, J. S. Hine, E. B. Williamson.....	164.45
1902.	J. S. Hine, Lynds Jones, F. L. Landacre, Max Morse, J. H. Schaffner.....	375.50
1903.	T. A. Bonser.....	50.00
1904.	F. L. Landacre, Max Morse, J. G. Sanders, J. H. Schaffner.....	100.00
1905.	R. F. Griggs, Herbert Osborn.....	67.92
1906.	W. B. Herms, J. E. Hyde, F. Carney, Chas. Brookover, Victor Sterki.....	173.65
1907.	W. C. Morse.....	50.00
1908.	A. Dachnowski, H. S. Hammond, S. Morgulis, L. B. Walton, Freda Bachman (project published).....	99.09
1909.	J. H. Schaffner, L. B. Walton, Freda Detmers, A. Dachnowski, G. E. Coghill, R. J. Sim.....	179.73
1910.	J. H. Schaffner (for publication), A. Dachnowski, Freda Detmers, J. C. Hambleton.....	174.70
1911.	W. C. Morse, W. M. Barrows, A. Dachnowski.....	118.50
1912.	W. G. Stover, Freda Detmers, L. B. Walton, J. S. Hine, A. Dachnowski, W. J. Kostir.....	130.65
1913.	Clara Mark, A. Dachnowski, Chas. Brookover, Freda Detmers, S. R. Williams.....	196.80
1914.	J. S. Hine, F. B. H. Brown, O. W. Pflueger, R. F. Griggs, S. R. Williams, W. H. Shideler, L. B. Walton.....	295.40
1915.	F. C. Blake, Charles Sheard, L. B. Walton, W. H. Bucher, J. S. Hine, S. R. Williams.....	355.28
1916.	S. R. Williams and W. H. Shideler; L. S. Hopkins, B. W. Wells, F. L. Landacre.....	200.00
1917.	Forest B. H. Brown, B. W. Wells, W. L. DuBois, S. R. Williams, W. M. Barrows.....	169.04
1918.	G. D. Hubbard, E. L. Rice, L. B. Walton, E. N. Transeau, H. W. Lutz.....	215.12
1919.	J. S. Hine, W. H. Bucher.....	150.00
1920.	F. C. Blake, Paul B. Sears, W. H. Bucher, L. B. Walton, Elsie Jordan.....	323.21
1921.	Elsie Jordan, L. B. Walton.....	42.81
1922.	Paul B. Sears, J. S. Hine.....	56.20
1923.	L. B. Walton, F. H. Herrick, L. H. Tiffany, J. E. Kindred, E. L. Stover, R. A. Dobbins.....	300.76
1926.	W. M. Barrows.....	70.00
1928.	Bernard S. Meyer.....	50.00
1931.	Bernard S. Meyer, Paul B. Sears.....	73.55
1934.	W. L. Evans.....	100.00
1935.	R. B. Frost.....	100.00
1936.	J. P. Porter.....	75.00
1937.	D. C. Rife, Wayne M. Felts, R. A. Dobbins.....	275.00
1938.	G. D. Hubbard, Frank H. Verhoek.....	150.00
1939.	E. Lucy Braun, B. G. Anderson, C. A. Lawson.....	300.00
1940.	J. W. Frink, A. N. Solberg.....	150.00



LIVING CHARTER MEMBERS OF THE OHIO ACADEMY OF SCIENCE
1940

LLOYD MORRIS BLOOMFIELD

AARON LOUIS TREADWELL
Vice-President 1896

GEORGE RANSOM TWISS

GEORGE PERRY GRIMSLEY
Greystone Studios, Inc.

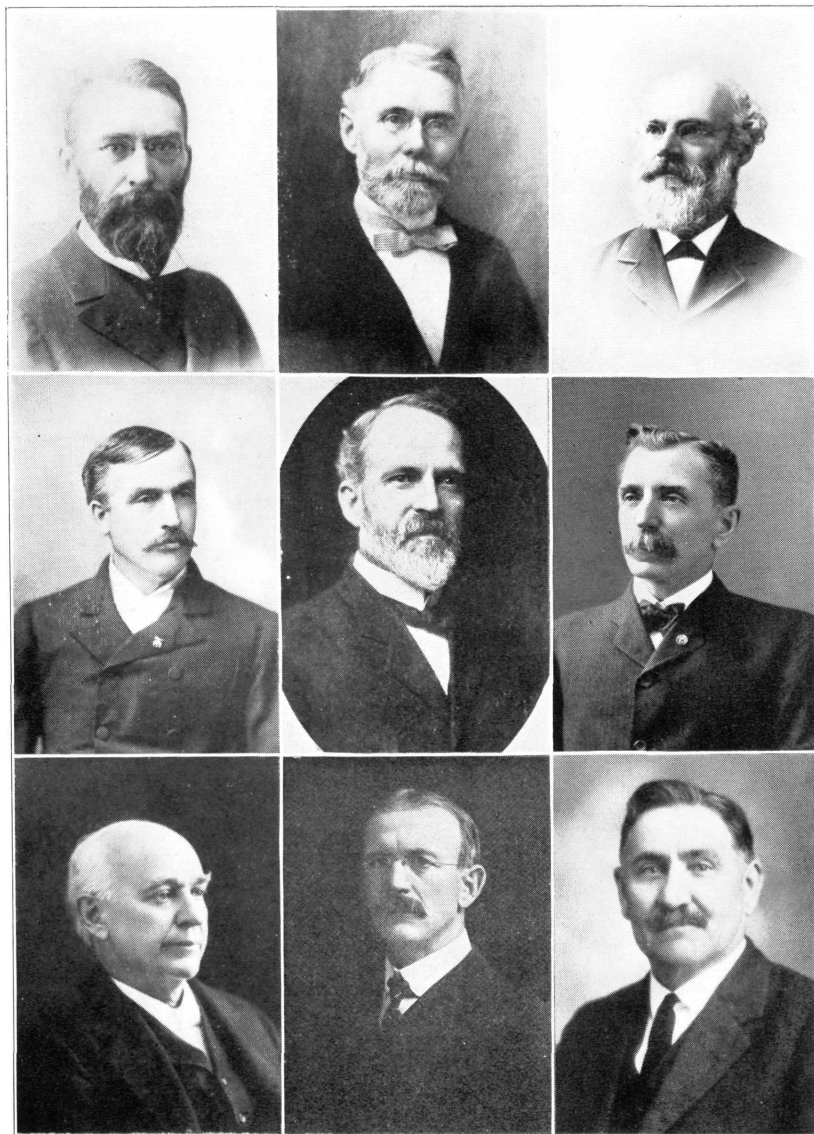
CHARLES BRADFIELD MORREY

EDWIN LINCOLN MOSELEY
Secretary 1895-1903
President 1904

HARVEY ADAM SURFACE
Died July 8, 1941

JOSEPH NELSON BRADFORD

EDWIN GRANT CONKLIN



CHARTER MEMBERS WHO BECAME PRESIDENTS OF THE OHIO ACADEMY OF SCIENCE

DAVID SIMONS KELLCOTT, 1895
Vice-President 1893
Treasurer 1896-1898

FRANCIS MARION WEBSTER, 1894

EDWARD ORTON, 1893

ALBERT A. WRIGHT, 1896
Vice-President 1892

WILLIAM ASHBROOK KELLERMAN,
1897

AUGUSTINE DAWSON SELBY, 1901
Vice-President 1899
Treasurer 1892-1895

EDWARD W. CLAYPOLE, 1892

WILLIAM RANE LAZENBY, 1902
Secretary 1892

JAMES STEWART HINE, 1929
Treasurer 1905-1919



CHARTER MEMBERS WHO BECAME VICE-PRESIDENTS OF THE
OHIO ACADEMY OF SCIENCE

CHARLES ELIHU SLOCUM, 1897
CHARLES EDWIN ALBRIGHT, 1899
DAVIS LAWLER JAMES, 1893

MRS. WILLIAM A. KELLERMAN,
1894, 1901
ALFRED DODGE COLE, 1914
MISS JANE F. WINN, 1895

HENRY EDGERTON CHAPIN, 1895
J. B. WRIGHT, 1897
LOUIS H. MCFADDEN, 1904
Cornwell, Dayton, O.



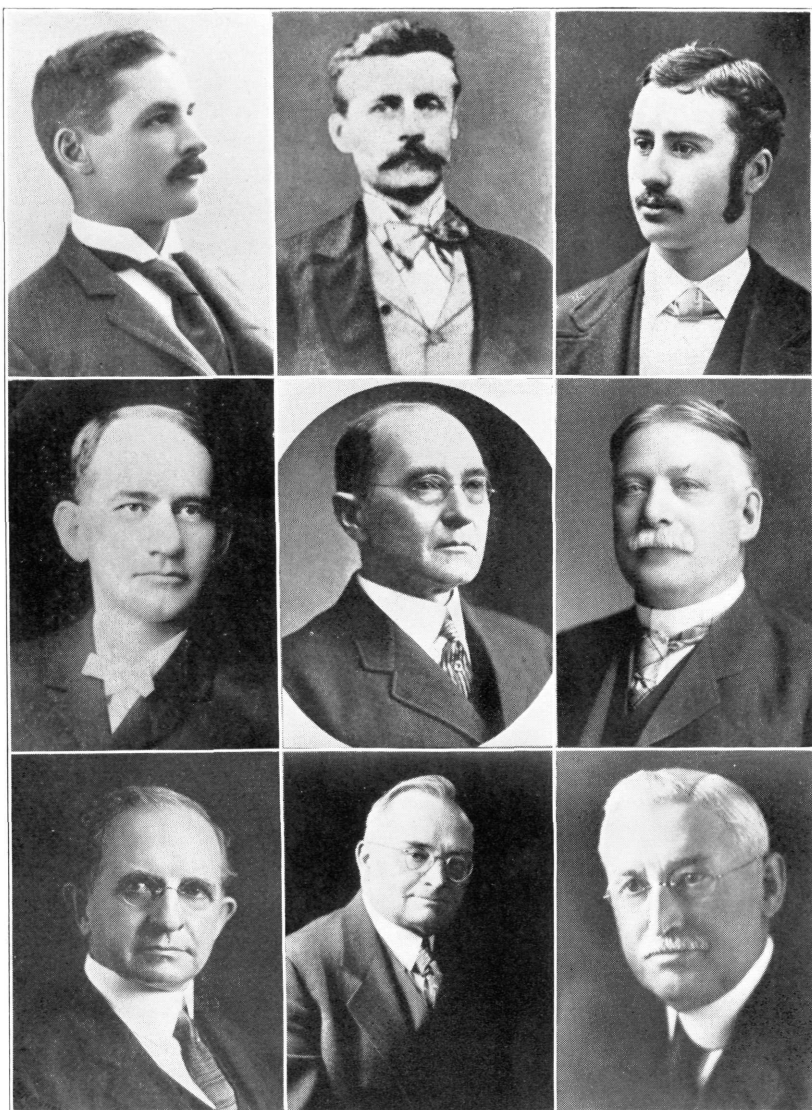
CHARTER MEMBERS OF THE OHIO ACADEMY OF SCIENCE

WILLIAM KREBS	LEWIS ULLRICH	HERBERT LYON JONES
FRANK JOSEPH FALKENBACH	MISS FREDA DETMERS Vice-President 1918	ALBERT MARTIN BLEILE Chairman, Organization Meeting, December 31, 1891
ROSSER DANIEL BOHANNAN	WILLIAM JAMES GREEN	NATHANIEL WRIGHT LORD



CHARTER MEMBERS OF THE OHIO ACADEMY OF SCIENCE

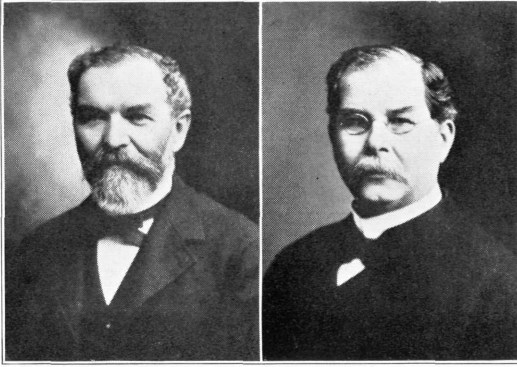
E. T. NELSON	KENT OSCANYAN FOLTZ	WILLIAM SOULE
HORACE P. SMITH	MISS SARA F. GOODRICH	BENJAMIN FRANKLIN THOMAS
GEORGE W. DEAN	EDO N. CLAASSEN	HENRY J. DETMERS



CHARTER MEMBERS OF THE OHIO ACADEMY OF SCIENCE

L. A. HINE	HENRY SNYDER	WILLIAM C. WERNER
ERNEST EVERETT BOGUE	JOHN URI LLOYD	ALBERT NEWTON OZIAS
REYNOLD JANNEY	SETH HAYES	THOMAS FORSYTH HUNT

PLATE VII



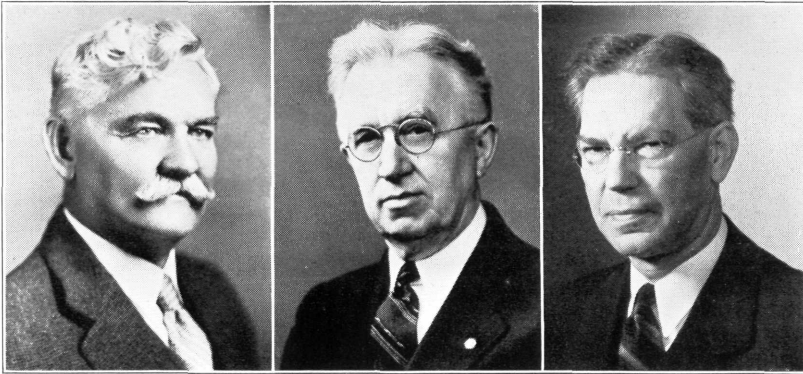
CHARTER MEMBERS OF THE OHIO ACADEMY OF SCIENCE

ADOLPH FEIEL

HENRY ADAM WEBER

Pictures were not secured of Frank J. Combs, L. W. Gunckel, and
Miss Ellen E. Smith, Vice-President 1892

PLATE VIII



SEMI-CENTENNIAL OFFICERS OF THE OHIO ACADEMY OF SCIENCE
1940

WILLIAM HENRY ALEXANDER
Secretary

WILLIAM LLOYD EVANS
President

EUGENE VAN CLEEF
Treasurer